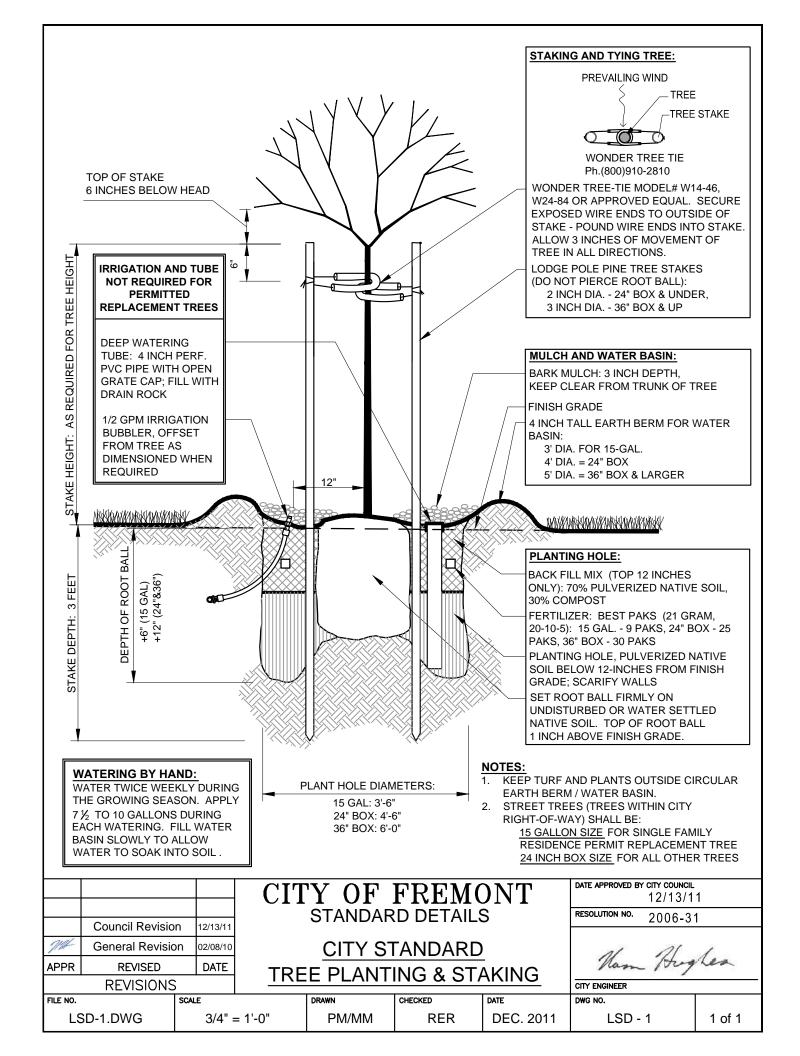
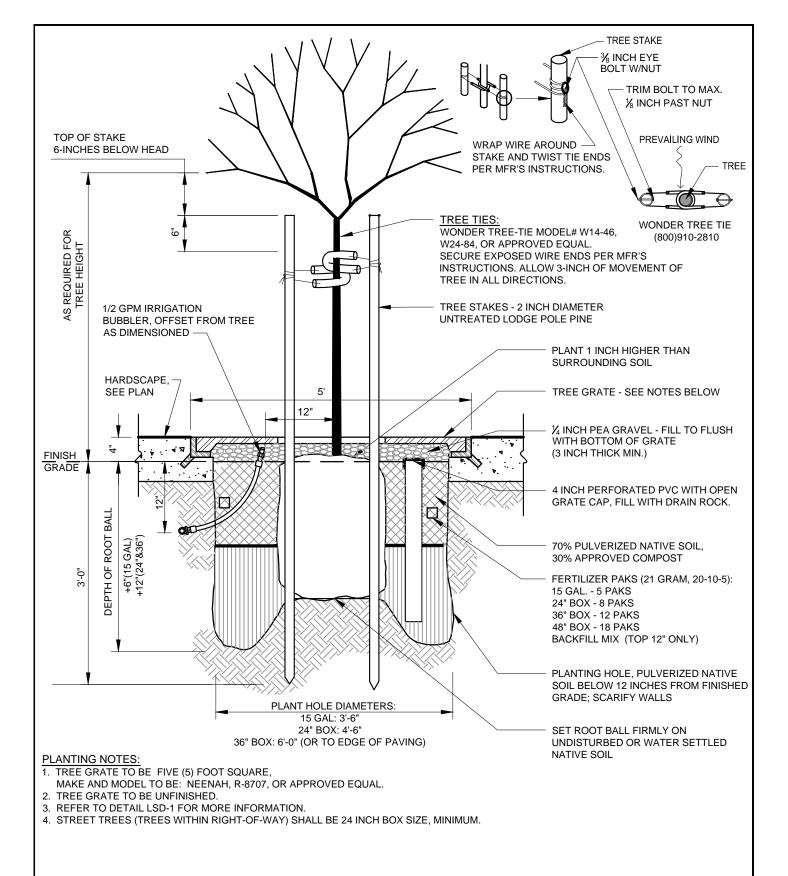


LANDSCAPE STANDARD DETAILS (LSD) FOR CITY PROJECTS AND RIGHT-OF-WAY

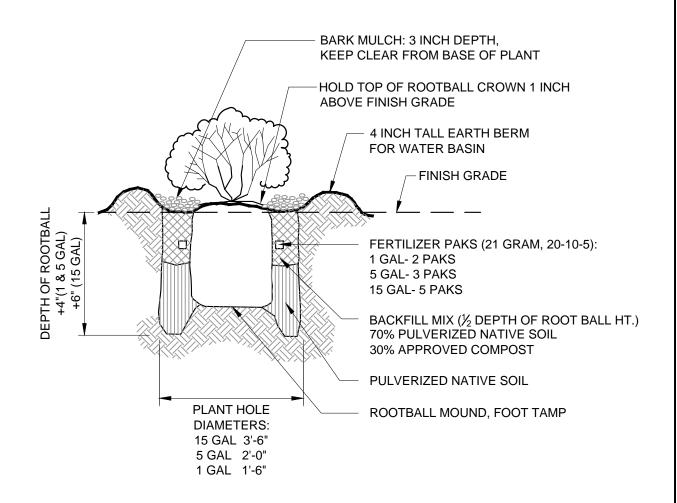
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LSD-3	SHRUB AND GROUNDCOVER PLANTING
LSD-4	SHRUB AND GROUNDCOVER LAYOUT
LSD-5	STREET TREE CLEARANCES
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LSD-22	IRRIGATION GATE VALVE
LSD-23	REMOTE CONTROL VALVE W/ GATE VALVE
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LSD-31	STORMWATER TRASH CAPTURE INLET (3 pages)

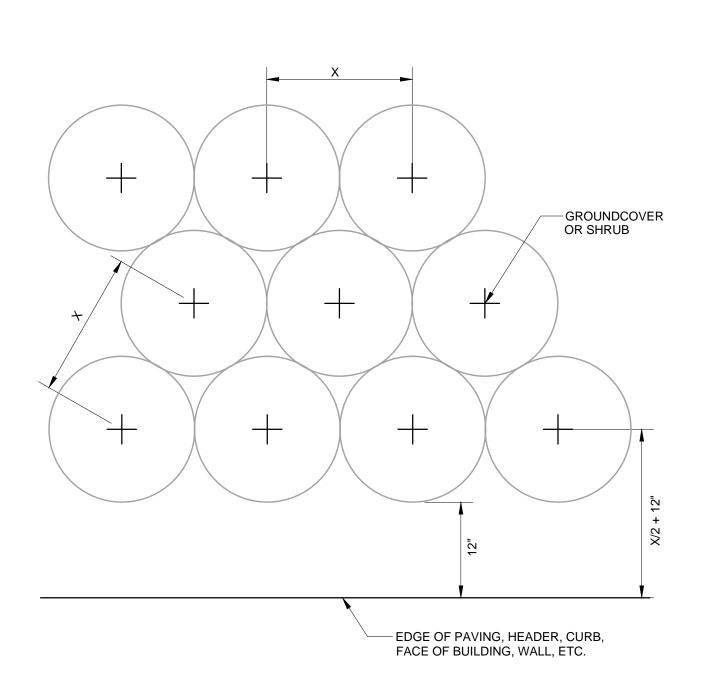




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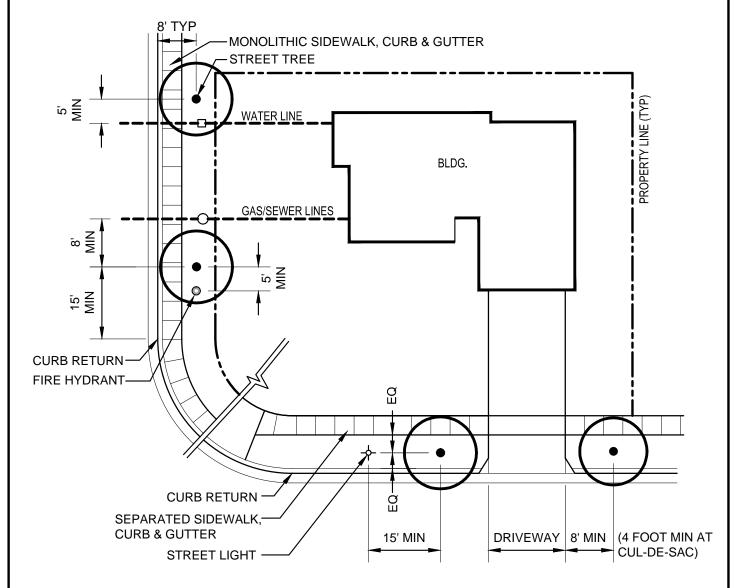


- 1. 'X' IS GROUNDCOVER AND SHRUB SPACING PER THE LANDSCAPE PLAN, PLANT LIST, AND LEGEND.
- 2. KEEP MULCH CLEAR OF PLANT BASE (SEE LSD-3 & LSD-12)

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MINIMUM STREET TREE CLEARANCES

- 1. STREET TREES SHALL BE LOCATED 8 FEET (MIN) FROM SANITARY SEWER, GAS, AND STORMWATER LINES.
- 2. STREET TREES SHALL BE LOCATED 5 FEET (MIN) FROM WATER, TELEPHONE AND ELECTRICAL LINES.
- 3. STREET TREES SHALL BE LOCATED 5 FEET (MIN) FROM FIRE HYDRANTS.
- 4. STREET TREES SHALL BE LOCATED 15 FEET (MIN) FROM STREET LIGHTS.
- 5. STREET TREES SHALL BE LOCATED 8 FEET (MIN) FROM DRIVEWAYS AND 4 FEET (MIN) AT CUL-DE-SAC.
- 6. STREET TREES SHALL BE GENERALLY 35 FEET ON CENTER.
- 7. STREET TREES SHALL BE LOCATED 15 FEET (MIN) FROM CURB RETURNS.
- 8. MINIMUM ONE TREE PER LOT REQUIRED, AND TWO PER CORNER LOT.
- 9. IF LOT WIDTH EXCEEDS 60 FEET AT THE STREET, ONE TREE IS REQUIRED EVERY 35 FEET OF STREET, EXCLUDING LENGTH OF CURB RETURN.



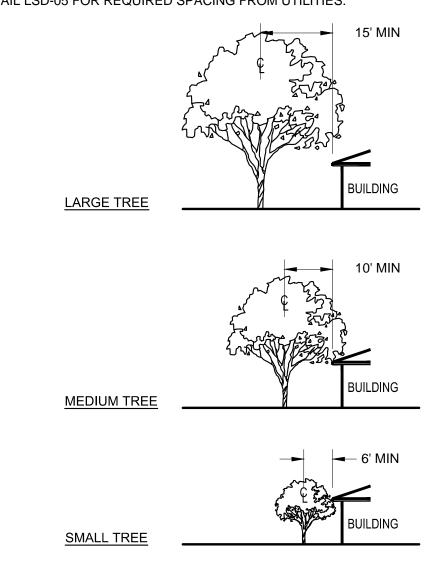
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MINIMUM TREE CLEARANCES FROM BUILDINGS

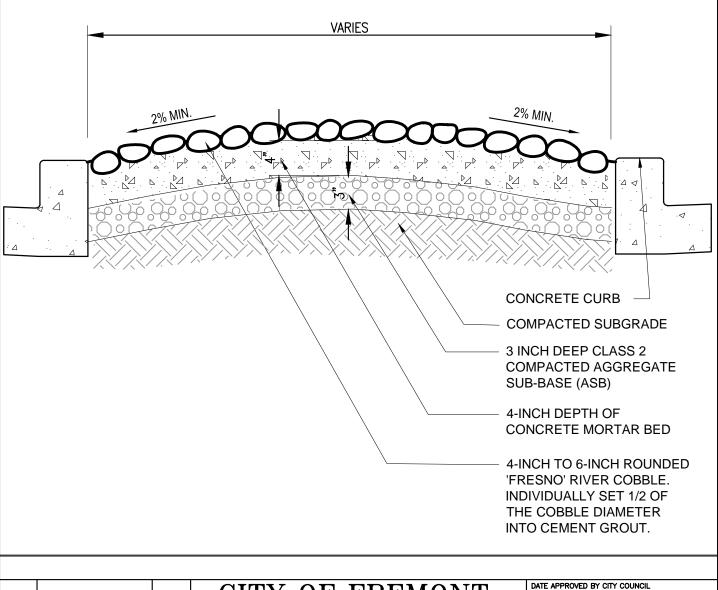
BRANCHES FROM MATURE TREES MAY NOT OVERHANG BUILDINGS AND ROOFS. ADEQUATE SPACE TO PLANT TREES ADJACENT TO BUILDINGS OR OTHER BUILT FEATURES MUST BE PROVIDED IN THE FOLLOWING MINIMUM WAYS:

- 1. SMALL TREES (TO 15 FEET TALL AT MATURITY) NO CLOSER THAN 6 FEET FROM BUILDING OR 2 FEET* FROM PAVING, CURBS, OR WALLS WITH A MINIMUM PLANTING AREA 5 FEET WIDE.
- 2. MEDIUM TREES (TO 35 FEET TALL AT MATURITY) NO CLOSER THAN 10 FEET FROM BUILDING OR 3 FEET* FROM PAVING, CURBS, OR WALLS WITH A MINIMUM PLANTING AREA 6 FEET WIDE.
- 3. LARGE TREES (ABOVE 35 FEET TALL AT MATURITY) NO CLOSER THAN 15 FEET FROM BUILDING ORE 3 FEET* FROM PAVING, CURBS, OR WALLS WITH A MINIMUM PLANTING AREA 6 FEET WIDE, <u>PREFERABLY</u> 8 FEET WIDE.
- 4. WHEN ROOF EAVES OR BUILDING PROJECTIONS EXTEND BEYOND FACE OF BUILDING, CLEARANCE SHALL BE MEASURED FROM EDGE OF PROJECTION TO CENTERLINE OF TREE.
- 5. UPPER STORY OVERHANGS AND BUILDING FEATURES MAY NOT EXTEND WITHIN MINIMUM CLEARANCE EXCEPT FOR MINOR ROOF EAVES.
- * REFER TO CITY STANDARD DETAIL LSD-05 FOR REQUIRED SPACING FROM UTILITIES.

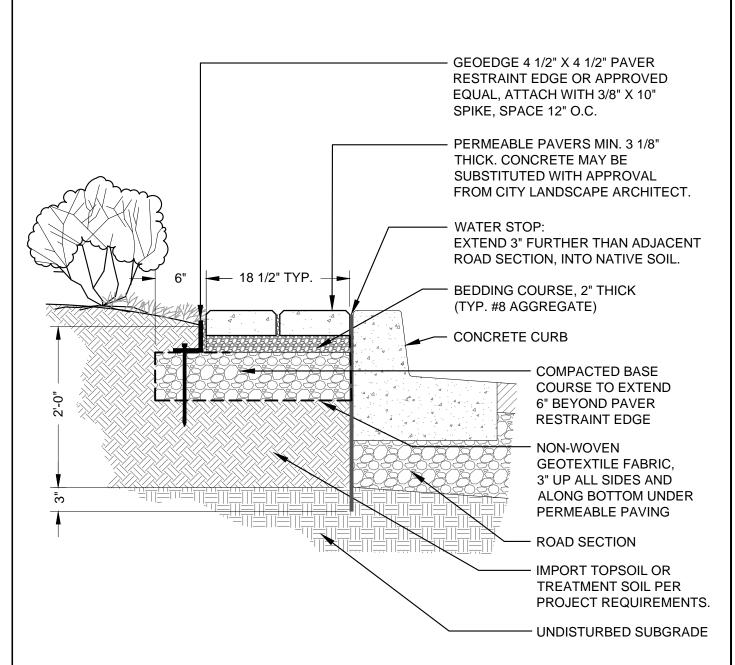


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- 1. CURRENT STANDARD DETAIL AT CITY ENGINEERING DIVISION SHALL PREVAIL.
- 2. CROWN TO BE ROUNDED WITH NO SHARP GRADE BREAKS.
- 3. MINIMIZE VISIBLE EXPOSED GROUT AT COBBLE JOINTS.
- 4. SURFACE OF COBBLE FIELD TO BE SMOOTH AND FLAT TO GRADE WITHOUT VARIATION IN HEIGHT OF INDIVIDUAL COBBLES.
- 5. COBBLES WITH BREAKS OR FRACTURES ARE NOT ALLOWED.
- 6. ROCK SHALL BE 'SATURATED SURFACE MOIST' (SSM) PRIOR TO PLACEMENT.
- 7. CONCRETE MORTAR BED SHALL HAVE A CEMENT RATIO PER CUBIC YARD OF CONCRETE OF NOT LESS THAN 564 POUNDS; SLUMP MAX. OF 3"; AGGREGATE SIZE ½" MAXIMUM.
- 8. INTEGRAL COLOR ADMIXTURE: CHROMIX, ADOBE TAN, #C-21 BY L.M. SCOFIELD.

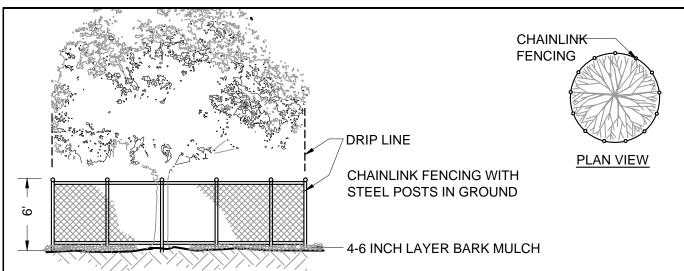


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- 1. ON MEDIANS LESS THAN 14 FEET WIDE, REPLACE MAINTENANCE BAND WITH 18 INCH MINIMUM WIDTH PLANTING OF WALKABLE GROUNDCOVER.
- 2. IF CONRETE, INSTALL 'DEEP JOINTS' TO MATCH CURB & GUTTER DEEP JOINTS. SEE ENGINEERING STANDARD DETAIL 8 FOR DEFINITION OF 'DEEP JOINT.'
- 3. IF PAVERS ARE TO BE SET ADJACENT TO AN EXISTING TREE HAND EXCAVATE ALL AREAS WITHIN TREE DRIPLINE. SEE LSD-9 FOR TREE PRESERVATION NOTES.
- 4. PAVERS TO BE: 6 X 9 X 3 1/8 CALSTONE PERMEABLE PAVING UNITS, COLOR: RUSTIC YELLOW STONE, UNLESS APPROVED BY THE CITY LANDSCAPE ARCHITECT.

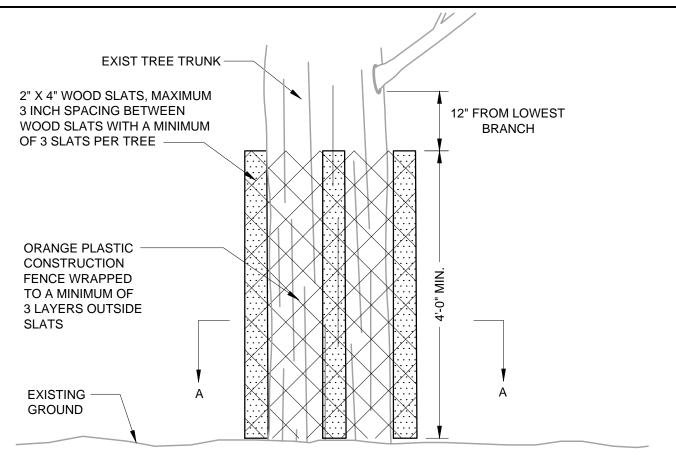
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TREE PROTECTION NOTES

- 1. CURRENT STANDARD DETAIL AT CITY ENGINEERING DIVISION SHALL PREVAIL.
- 2. TREE PROTECTION MEASURES MUST BE IN PLACE BEFORE CONSTRUCTION, DEMOLITION AND/OR GRADING ACTIVITIES COMMENCE. CITY OF FREMONT WILL STOP CONSTRUCTION IF TREE PROTECTION MEASURES ARE NOT IN PLACE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- 3. TREES CALLED OUT FOR PRESERVATION SHALL BE FENCED AT THE DRIPLINE. FENCING MAY OCCUR AT THE COMBINED DRIPLINES OF GROVES OF TREES. PLACE 4-6 INCH BARK MULCH BENEATH DRIPLINES OF TREES TO BE PRESERVED. KEEP BARK 2-3 FEET FROM TREE TRUNK.
- 4. FENCING SHALL BE 6 FEET TALL CHAIN LINK FENCING WITH STEEL POSTS EMBEDDED IN THE GROUND.
- 5. NO GRADING SHALL OCCUR WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.
- 6. NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.
- 7. CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING. ADDITIONAL FENCING MAY BE REQUIRED BY THE CITY AS NEEDED.
- 8. THE CONTRACTOR IS REQUIRED TO HAVE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), APPROVED BY THE CITY, ON SITE IF SITE CONSTRUCTION EFFORTS REQUIRE REMOVAL OF EXISTING ROOTS OR BRANCH PRUNING. ROOTS APPROVED FOR CUTTING MUST BE CUT CLEANLY WITH A SAW. RIPPING OR SHREADING ROOTS SUBJECT TO FINE/PENALTY.
- 9. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO REPLACEMENT EQUAL TO THE APPRAISED VALUE OF THE TREE LOST PER FMC 4-5108.
- 10. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. AN EARTH BERM MEASURING MINIMUM 6 FEET IN DIAMETER, AND 6 INCHES IN HEIGHT SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS A TEMPORARY WATERING BASIN DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE SPECIES REQUIREMENTS.
- 11.IF TREES ARE BEING RELOCATED: RELOCATION OF EXISTING TREES SHALL OCCUR UNDER THE OBSERVATION AND DIRECTION OF A CERTIFIED ARBORIST APPROVED BY THE CITY OF FREMONT.
- 12. TRUNK WRAP PROTECTION SHALL OCCUR FOR TREES SITUATED IN SMALL TREE WELLS OR SIDEWALK PLANTERS. THIS FORM OF PROTECTION WILL BE ALLOWED BY APPROVAL FROM SENIOR LANDSCAPE ARCHITECT ONLY. REFER TO LSD-10.

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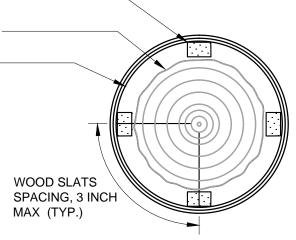


ELEVATION

2" X 4" WOOD SLATS, MAXIMUM 3 INCH SPACING BETWEEN WOOD SLATS WITH A MINIMUM OF 3 SLATS PER TREE

ORANGE PLASTIC —

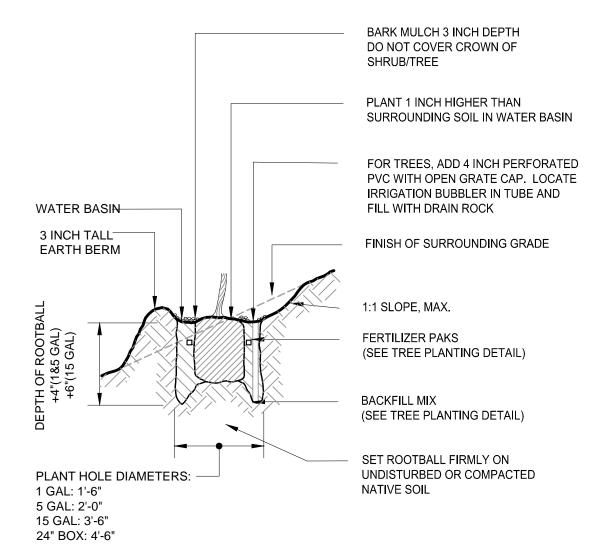
CONSTRUCTION FENCE WRAPPED TO A MINIMUM OF 3 LAYERS OUTSIDE SLATS



SECTION A-A

- 1. WRAP ORANGE PLASTIC
 CONSTRUCTION FENCE ON TOP OF
 WOOD SLATS WITH AN OVERLAP OF 12
 INCHES AND TIE WITH WIRE.
 SEE SECTION BELOW.
- 2. TEMPORARY TRUNK WRAP
 PROTECTION WILL BE ALLOWED ONLY
 BY APPROVAL FROM THE SENIOR
 LANDSCAPE ARCHITECT
- 3. DAMAGE TO BRANCHES & ROOTS SUBJECT TO FINE UP TO APPRAISED VALUE OF THE TREE, PER CITY TREE PRESERVATION ORDINANCE (FMC 4-5100).
- 4. REFER TO LSD-9 FOR ADDITIONAL TREE PROTECTION REQUIREMENTS APPLICABLE TO THIS DETAIL.
- 5. TRUNK WRAP SHALL BE IN PLACE NO MORE THAN 5 WORKING DAYS BEFORE WORK ADJACENT TO TREE, AND REMOVED NO MORE THAN 5 WORKING DAYS AFTER WORK ADJACENT TO THE TREE, UNLESS OTHERWISE APPROVED BY THE CITY.

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- 1. KEEP TURF AND PLANTS OUTSIDE THE EARTH BERM/WATER BASIN
- 2. SEE TREE PLANTING DETAIL FOR STAKING INFO.
- 3. THIS DETAIL TO BE REFERENCED, PER CITY STANDARD DETAIL LSD-11, FOR TREE PLANTING IN A VEGETATED BIOSWALE.

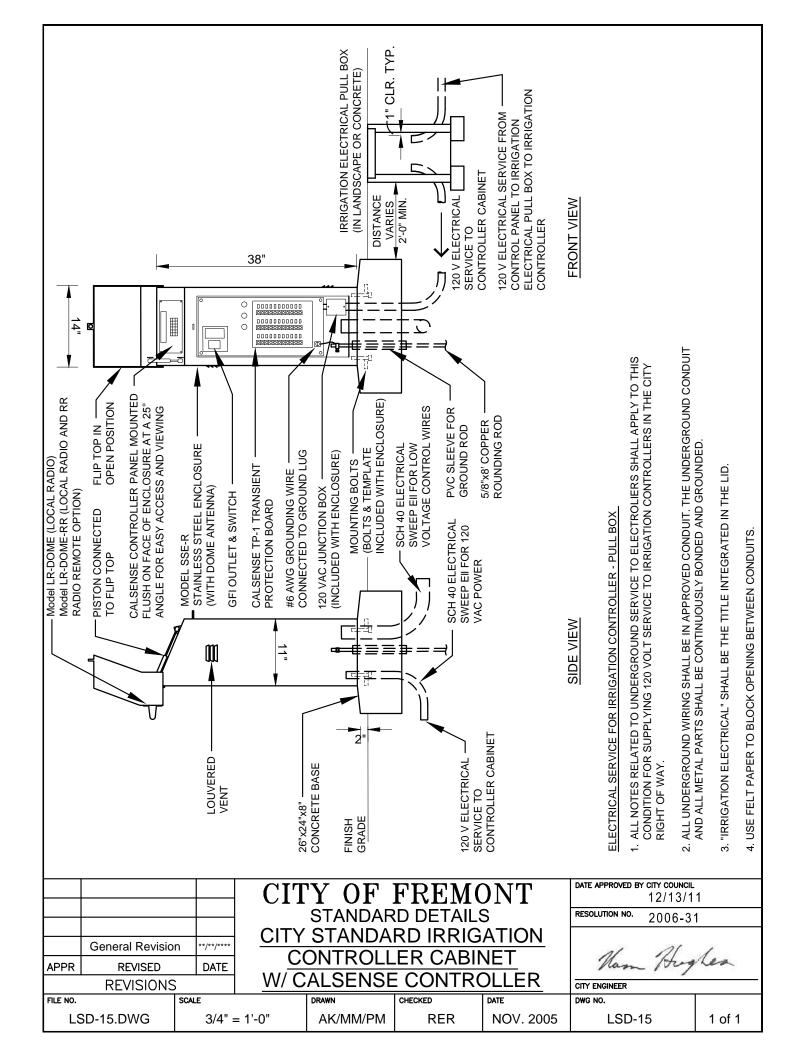
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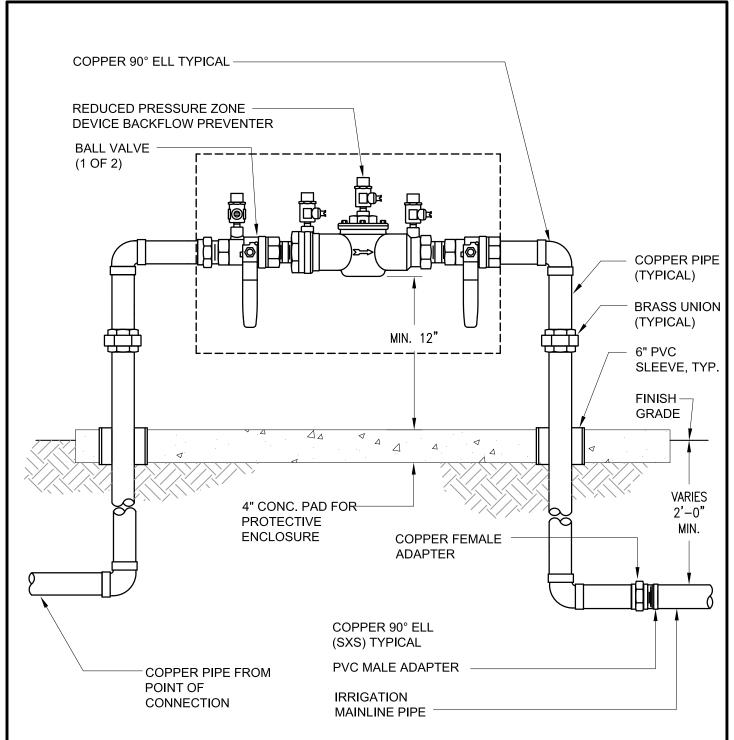
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Botanical Name: Common Name	Evergreen	Deciduous	Spreading	Round	Conical	IsvO	(Ilsms) č1-0 (muibəm) č£-č1	35 and over (large)	0-20	35 and over	woll	Moderate	Large Vigorous	Shallow Surface	Root Suckers	Large	Ilem2	Dense	Filtered	o _N	Умод Зрому	Not Showy Heavy	Medium	Light 30 YEARS	60 YEARS	100 YEARS	100+ YEARS Good Drainage	Poor Drainage	Boron	Sodium	οN	+,5	+,9	+,01
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Eucalyptus rudis: Desert Gum	•	+		+	+	٠	+	٠				+	•	+		+			+	·	+	•	•	+	٠	+	+	•	•	:			+	
Fraxinus americana 'Autumn Purple'	1	+	1	+	+	•	+	٠	1	\exists		+	1	+	1	+			•	1	\dagger	:	1	+	1	•	+	·	+			1	+	.
Fraxinus velutina 'Rio Grande': Fan Tex Ash	+		·	+	+	1	+	Ţ	+		\pm	+	1	+	1	+			•		•	+	•	+	·	+	+	1	+	:		\dagger		
Geijera parvitlora: Australian Willow	•	+	1	+	+	·	+		+		•	+	1	+	1	•		•	+	·	+		#	+	•	+	+	1	+	+				
inkgo biloba: Maidenhair Tree	1	.	1	+	+	\cdot	+	·Ţ	1	1	·	+	1	+	1	+	Ţ		4	1	+	+	1	+	1	$\cdot $	+	1	+	+	·		. †	٠l
acaranda mimosifolia: Jacaranda	•		1	$^{+}$	+	٠	+	Ţ	•	\bot	\pm		1	•	ļ	+	J	Ì		٠	•	٠	1	+	٠	†	+	1		٠			+	
Lagerstroemia cultivars: Crape Myrtle	+		1	•	-	٠	•	Ţ	•	4	٠	+	1	•	٠	+	•	•	٠	1		+	1	•	•	1	٠	1		٠				.
Laurus nobilis 'Saratoga': Grecian Laurel	•	+	1	+		Ţ	_	Ţ	•	4	\rightarrow	+	1	-	1	+	Ţ		4	•	+		1			•	-	1		+		1		
Magnolia grandiflora: Southern Magnolia	·	+	·	+	+	٠	_	•	1	•	•		1	•	1		1		+	·		•	1	+		1	:	•		+	•	1	+	.
Magnolia soulangiana: Southern Magnolia	1	.	₫	+	-	7	1	•	1	-1	·	+			1	.	1	.]	4	1	.	4	·	┨	1	1	∄	1	+	┧		1	┪	٠l
Melaleuca ericifolia: Heath Melaleuca	·	-		•	4		•		•	1		•				+	·	·	_	·	+			•	٠		+	٠	_	•		+		
Melaleuca linariifolia: Flaxleaf Paperbark		4	٠	+	-				•	4						+	٠		_	٠					٠		\dashv	٠	•	•				
Melaleuca quinquenervia: Cajeput Tree	٠			•				Ţ	•	_						•			_	٠		-		•	٠		\dashv	٠	•	•				.
Melaleuca styphelioides:Melaleuca	٠			•			•	Į		J							٠			٠					٠		-	٠	•	•				
Morus alba: Fruitless Mulberry	į	\cdot	٠	-			_	Ţ	_	\cdot		-	٠	-			\Box		4	٠	-	\exists	٠	4	٠	1	4	٠	•	:				
Olea europaea 'Swan Hill': Fruitless Olive	•					٠		Ī	j	_	·		·	\exists			•		H	٠							\vdash	٠	•	•				
Pinus canariensis: Canary Island Pine		٠		-				4						•			·	·		٠			٠			•	•		_	+		+		
Pinus pinea: Italian Stone Pine		٠	٠					٠		•	•	•	٠				•		_	٠		_	•			•	÷		•	<u>·</u>				
Pistacia chinensis: Pistache	•	_				٠	i		Ė	_				_			٠	İ	<u>.</u>								•			•				
Platanus acerifolia 'Columbia': Sycamore	İ	•	٠				Н	٠		•		•		•		•				•			•			•		٠	•	•		•		
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Prunus cerasifera: Purple Leaf Plum	Ė	l-		•			Ė	Ē	ŀ	F		:				\vdash	·		L	·	•	٠		ŀ		H	ŀ		ľ	ŀ			١.	
Pyrus calleryana 'Aristocrat': Flowering Pear	Ė			H	-	٠	Ė		Ė	Į.				ŀ	٠	•		ŀ	•			-				•	\vdash	٠	Ť	ŀ	•			
Pyrus calleryana 'Chainticleer': Flowerino Pear	Ė	١.		+	•	٠	Ė		•	F				ŀ	•	ŀ.		ŀ	•		•		Ĺ			•	H	٠	Ť		•			
Pyris calleryana 'Red Spire'. Flourering Dear	ļ.		L	t	+	Γ	ļ.	F	ŀ	F			Ĺ	•	•	+	F	ļ.	ŀ			\perp	İ	+			+	•	ľ		•	١.	١.	
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Quercus agrifolia: Coast Live Oak	•	+	•	+	4	Ţ	+	•	┪	•	1	•	1	+	1	+	٠		+	•	\dagger		•	+	1	+	-	1		•		1	+	
Quercus coccinea: Scarlet Oak	+		٠	+	1	Ţ	+	•	1	•	1		1	•	1	•	Ţ		•		\dagger		•	+	1	•	-	1	1	+	•			
Quercus ilex: Holly Oak	٠	-	·					•		٠	٠			•		٠		•		٠						•	:		+	+				
Quaecus lobata: Valley Oak	İ	_	•			•		•		•		•		•		•		İ	-	•	_	•				_	<u>·</u>			•				
Ouercus rubra: Red Oak	Ė	-	٠							F		•						ŀ	٠		Ė	•	٠			•	•			H	٠			•
Rhus lances: African Sunso	ţ.	╀	Ŀ	t	╀	F	ŀ	F	Ė	Ŧ.	ŀ	H	Į	ŧ.	F	H	Ŀ	ť	Ŧ	Ŀ	f	ł.	ŀ	ł	Ŀ	t	ŀ	ļ	F	ŀ.	I	t	t.	Γ
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Kobinia ambigus Idahoensis: Idaho Locust	1	+	1	+	+	1	+	Ţ	+	Ŧ	1		1	+	1	+	1	1	+	•	+	+	•	+	•	\dagger	+	•	+	:+		†	$^{+}$	T
Schinus molle: California Pepper Tree	٠	4	٠	+	\dashv	I	1	٠	j	J					4	+	٠	1	+	٠	1		•	+			•		1	+	•	1	+	
Sequoia sepmervirens: Coast Redwood		٠		_	•		_	•		•		•		•			•			٠	_	•				_	-	•		•				
anium sehiferum: Chinese Tallow	Ė	-		•			Ė	Ē	Ė	Ĺ	٠	H		ŀ.		ŀ		ť	•			H		•	•	t	H				•			
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Sophora Japonica Regent: Japanese Pagoda	+	+	1	+	+	Ţ	+	Ţ	+	+	-		1	+	•	+	1	1	+		+	+	#	+	1	+	+	1	+	+	•	+		.
Zelkova serrata: Japanese Zelkova	+	+	•		+	Ţ	+	•	+	•	•		1	+	1	+	Ţ		+	1	+	+	•	+	•	+	+	1	+	+	•	†	+	.
ristania Janrina: Swamp Myrtle	•			•	_	•	•		•		:	_		•		•	_	•	_		•	-		-	•		•		_	:		•		

TREE CHOICES ARE NOT LIMITED TO THIS LIST. THIS LIST IS ONLY A GUIDE.

			CIT	Y OF	FREMO		12/13/1 RESOLUTION NO. 2006-3	1
	Council Revisio	n 12/13/11			TANDARD		2000-3	1
APPR	REVISED REVISIONS	DATE	TRE	E PLANTI	NG GUID	E LIST	Man Hug	hea
FILE NO.	SD-13.DWG	SCALE NO	ONE	DRAWN MM	CHECKED RER	DEC. 2011	DWG NO. LSD-13	1 of 1

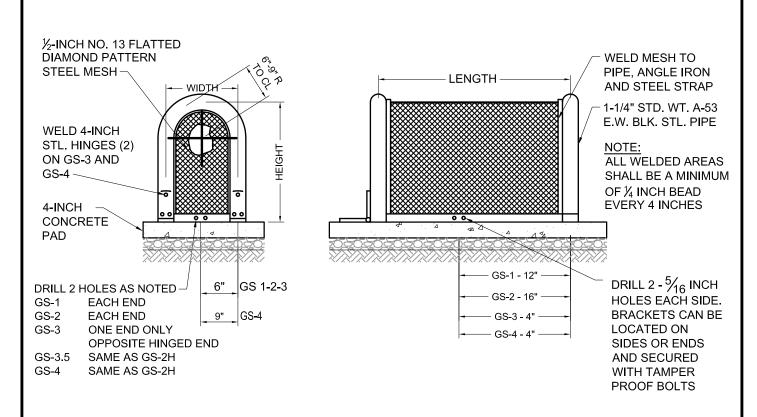
STANDARD SYMBOL	DESCRIPTION	MANUFACTURER	MODEL # (if applicable)	COMMENTS	LANDSCAI STANDAR DETAIL
©	Irrigation Controller w/ Enclosure	Calsense	ET 2000e	w/ all applicable software as required by the city, and dome antenna	LSD-15
	Irrigation Controller Enclosure	Calsense Enclosure	SSE-R	Heavy-Duty Stainless Stee	el LSD-15
M	Reduced Pressure-Princip Backflow Preventer with cage and concrete pad	le Febco	825-Y		LSD-16
	Backflow Assembly Cage	Guardshack	GS Series	Powdercoat Black	LSD-17
	Irrigation Trench - Mainline		Sch. 40 PVC for 2" & less Class 315 PVC for 2-1/2" & larg	24" below fin. grade ger	LSD-18
_	Irrigation Trench - Lateral line		Class 200 PVC for 11/4" and greaters. Sch. 40 PVC for line 1" & smaller	ater 18" below fin. grade	LSD-18
	Sleeves		Class 315 PVC	Refer to LSD-18 for depth and size	LSD-1
•	Quick-Coupling Valve (in box)	Hunter	HQ-44LRC-AW HR-44A	Winged body w/ 1" key, locking cover, and key	LSD-19
	Quick-Coupling Valve Box	Carson Pentek	910 Lockable Superflexon	10" Round box w/ lid	LSD-1
	Wire Splice	Scotchlok Y-spring connector		Install per detail LSD-20	LSD-20
	Turf Sprinklers	Toro Hunter	Super 700C Series I-40 OR I-20 365-XX, 360 d, AD	Large Turf Areas	LSD-2
	Turf Sprinklers	Toro	640 Series	Large Turf Areas	LSD-2
	Turf Sprinklers	Toro	570Z-6P/12P-O-T Precision Ser	ies Small Turf Areas	LSD-2
	Shrub/Groundcover	Toro	570Z-6P/12P-O-T Precision Ser	ies Shrub/Groundcover Areas	LSD-2
	Shrub Bubblers	Toro	PC-FB-25	Shrubs	
	Tree Bubblers	Toro	PC-FB-50	Trees	LSD-0
H	Gate Valve (in box)	Nibco	T-113		LSD-2
	Gate Valve Box	Carson Pentek	910 Lockable Superflexon	10" Round box w/ lid	LSD-2
•	Remote Control Valve (in box)	Griswold	2000 Series NC - Solenoid Valv 2230 Series NC - Pressure Red	NC = Normally Closed	LSD-2
	Remote Control Valve Box	Carson Pentek	1324 Lockable Superflexon	13" X 18" box w/ lid	LSD-2
Y	'Y' Strainer	Febco	650A 1/2"-2"		LSD-2
	Pressure Reducing Valve	Febco/Wilkins/Watts	XXX		LSD-2
FS	Flow Sensor	Calsense	FM-1B		LSD-2
MV	Master Valve	Griswold	2160 Series NO - Solenoid Valv	e NO = Normally Open	LSD-2
Note: Sym	bols shown are ci		r those items $FREMONT$	DATE APPROVED BY CITY COUNC	
			RD DETAILS	RESOLUTION NO. 2006-	31
General Revision 6/07/10		TANDARD	Nam He	gles	
-	SIONS	IRRIGATIO	N MATERIALS	CITY ENGINEER	N = 1
NO.	SCALE	DRAWN	CHECKED DATE	DWG NO.	
LSD-14.DW	G NONE	MAM/CC	RER DEC. 2	2011 LSD-14	1 of





- INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.
- 2. INSTALL FREEZE PROTECTION JACKET AND CAGE. SEE CITY STANDARD DETAIL LSD-17 FOR CAGE DETAIL.
- 3. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS

FILE NO. SCALE LSD-16.DWG 1" = 1"		'-0"	DRAWN PM/MM	CHECKED RER	DATE NOV. 2005	DWG NO. LSD-16	16 of 27	
	REVISIONS		DACK	CLOW Pr	CACINIC	K OMI	CITY ENGINEER	
APPR	REVISED	DATE	-	(FLOW PF		· · · · · · · · · · · · · · · · · · ·	Ham Hug	Rea
1	MISC REVISIONS	9/09	CITY	'STANDA	RD IRRIG	ATION	11 11	/
				STANDAR	DETAIL:	>	RESOLUTION NO. 2006-3	1
			CH	CITY OF FREMONT STANDARD DETAILS			12/13/1 RESOLUTION NO. 2006 2	
			СІТ	VOF	rdrii() NITT	DATE APPROVED BY CITY COUNCIL	

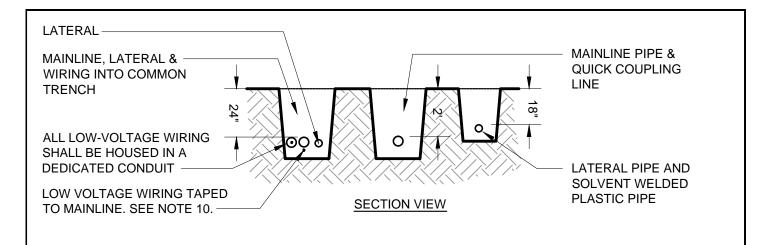


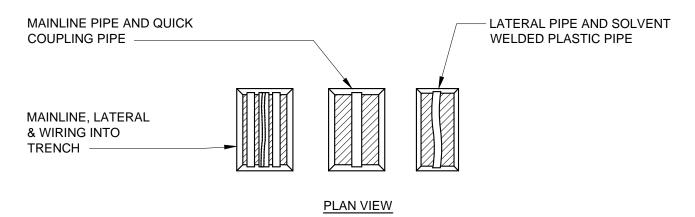
STD. SIZES	CENTERLINE DIMENSIONS		WEIGHT
GS5	12"W x 18"H x 12"L	LIFT OFF UNIT	35
GS-1	12"W x 24"H x 24"L	LIFT OFF UNIT	40
GS-2	12"W x 24"H x 32"L	LIFT OFF UNIT	45
GS-3	12"W x 24"H x 42"L	HINGED UNIT	51
GS-4	18"W x 30"H x 48"L	HINGED UNIT	67

GS = POWDER-COATED STEEL GUARDSHACK OR APPROVED EQUAL

- 1. AFTER ALL WELDING, ENTIRE UNIT SHALL BE PROCESSED WITH IRON PHOSPHATE PRE-TREATMENT. ELECTROSTATIC APPLICATION OF POWDER SHALL BE FUSION BONDED. POWDERCOAT COLOR SHALL BE BLACK.
- ALL BOLTS FOR HINGES AND HASPS SHALL BE ZINC-PLATED TAMPER PROOF, EXCEPTION -USE SS HARDWARE FOR SS UNITS.
 SS = STAINLESS STEEL
- 3. REFER TO SPECIFICATIONS FOR MODEL NUMBER
- 4. REFER TO CITY STANDARD DETAIL LSD-14 FORALL MATERIALS

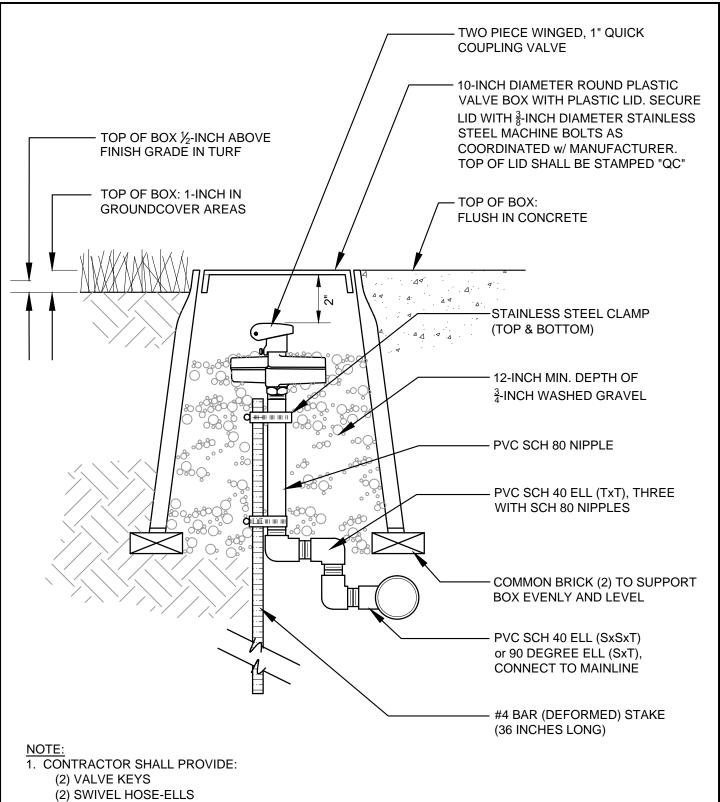
			CIT	Y OF	FREMO	ONT	DATE APPROVED BY CITY COUNCIL 12/13/1	1
				STANDARD DETAILS			RESOLUTION NO. 2006-3	1
				CITY STANDARD				
			DΛ	CKELOW	PREVEN'	TED	11 11	1
APPR	REVISED	DATE	DA				Nam Hug	Rea
	REVISIONS			UNII EN	CLOSURE	<u> </u>	CITY ENGINEER	
FILE NO.		SCALE		DRAWN	CHECKED	DATE	DWG NO.	
LS	LSD-17.DWG 1/2" =		= 1'-0"				LSD-17	1 of 1





- 1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 315 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE CONDUIT WITHIN; BURIAL DEPTH FOR SLEEVES BELOW FINISHED GRADE ARE AS FOLLOWS:
 - 42 INCH MINIMUM UNDER THOROUGHFARE AND STREETS
 - 24 INCH MINIMUM UNDER PLANTER AREA
 - 24 INCH MINIMUM UNDER PARKING LOT
 - 18 INCH MINIMUM UNDER SIDEWALK
 - 36 INCH MINIMUM UNDER TRAFFIC CIRCLES (RESIDENTIAL AREAS)
- 2. ALL SLEEVE BELOW HARDSCAPE SHALL EXTEND 24 INCHES BEYOND HARD SURFACE EDGES.
- 3. FOR PIPE AND WIRE BURIAL DEPTHS, SEE SPECIFICATIONS, MAINLINE SHALL HAVE MINIMUM COVER OF 24 INCHES, LATERAL SHALL HAVE MINIMUM COVER OF 18 INCHES.
- 4. SCH 40 PVC FOR MAINLINE 2 INCHES OR SMALLER.
- 5. CLASS 315 PVC FOR MAINLINE 2 1/2 INCHES AND LARGER.
- 6. CLASS 200 PVC FOR 2 INCH LATERAL LINES AND SMALLER.
- 7. SCH 40 PVC FOR QUICK COUPLING LINE 1 INCH MIN. TO 2 INCH MAXIMUM
- 8. TRENCH BACKFILL SHALL BE NATIVE MATERIAL, COMPACT TO 90% MINIMUM, RELATIVE COMPACTION UNLESS UNDER CONCRETE OR ASPHALT. USE TRENCH BACKFILL PER CITY SPECIFICATION 11A AND 11B UNDER CONCRETE OR ASPHALT.
- 9. REFER TO DETAIL LSD-14 FOR IRRIGATION MATERIALS LIST.
- 10. IF APPROVED IN WRITING FROM THE CITY'S LANDSCAPE ARCHITECT, CONTROL WIRE MAY BE INSTALLED WITHOUT CONDUIT. INSTEAD, RUN WIRING BENEATH MAINLINE. TAPE AND BUNDLE AT 10 FOOT INTERVALS. TIE A 24 INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30 INCHES OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.

			CIT	Y OF	DATE APPROVED BY CITY COUNCIL 12/13/1			
				STANDARD DETAILS			RESOLUTION NO. 2006-3	1
	Council Revision	n 12/13/11		CITY STANDARD			V0000	
	Council Revision	12/13/11		011131	ANDAND		11 11	1
APPR	REVISED	DATE	l II	RRIGATIO	N TRENC	H	Nam Hog	hea
	REVISIONS		<u></u>				CITY ENGINEER	
FILE NO.	FILE NO. SCALE			DRAWN	CHECKED	DATE	DWG NO.	
LS	LSD-18.DWG 1/4" =		= 1'-0"	AK/MM/PM	RER	DEC. 2011	LSD-18	1 of 1



2. ALL BOXES SHALL BE OFFSET 12-INCHES FROM ANY SIDEWALK, CURB &/or HEADER

			CIT		FREMO			7 COUNCIL 2/13/11 006-31
	Council Revision	ו 12/13/11				_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MA	General Revision	າ 06/07/10	CITY	' STANDA	RD IRRIG	ATION	11	01 1
APPR	REVISED	DATE		COUPLIN		IN BOY	Nam 1	tryles
	REVISIONS		QUICK	COUPLII	NO VALVE		CITY ENGINEER	
FILE NO.		SCALE		DRAWN	CHECKED	DATE	DWG NO.	
LS	LSD-19.DWG 3" =		: 1'-0"	AK/MM/PM	RER	DEC. 2011	LSD-19	1 of 1

STEP 1: STRIP WIRES ½ INCH FROM ENDS.

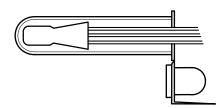
STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

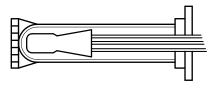




STEP 3: INSERT SPLICE FILLED TO BOTTOM OF GEL-FILLED TUBE, CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.

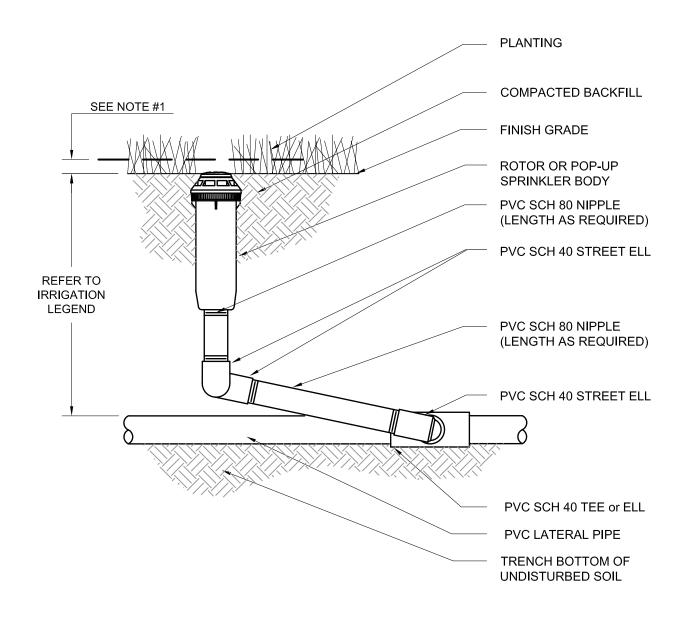
STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.





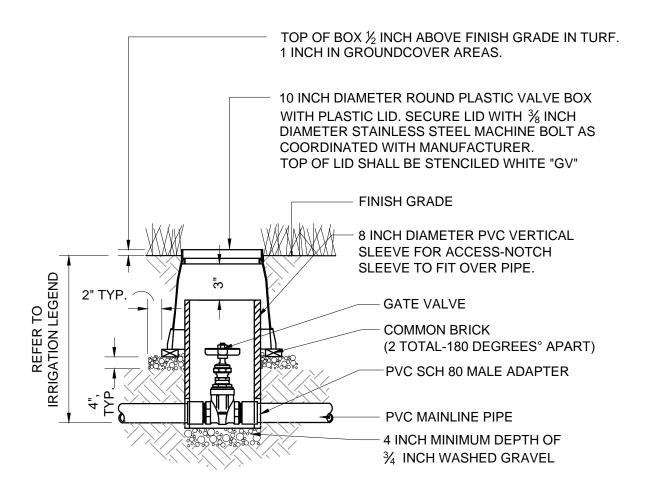
- 1. MAXIMUM WIRE SIZES PER CONNECTOR ARE 3-#14'S OR 2-#12'S
- 2. REFER TO CITY STANDARD DETAIL LSD-14 FOR MATERIALS

			CIT	Y OF			DATE APPROVED BY CITY COUNCIL 12/13/1	
				STANDARD DETAILS			RESOLUTION NO. 2006-3	1
				CITY S	TANDARE)	11 11	1
APPR	REVISED	DATE	IRF	RIGATION	WIRE SE	PLICE	Ham Hug	Lea
	REVISIONS	3	11 (1	(10) (1101)	VVII (L OI	LIOL	CITY ENGINEER	
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LS	LSD-20.DWG NO		ONE	AK/MM/PM	RER	NOV. 2005	LSD-20	1 of 1



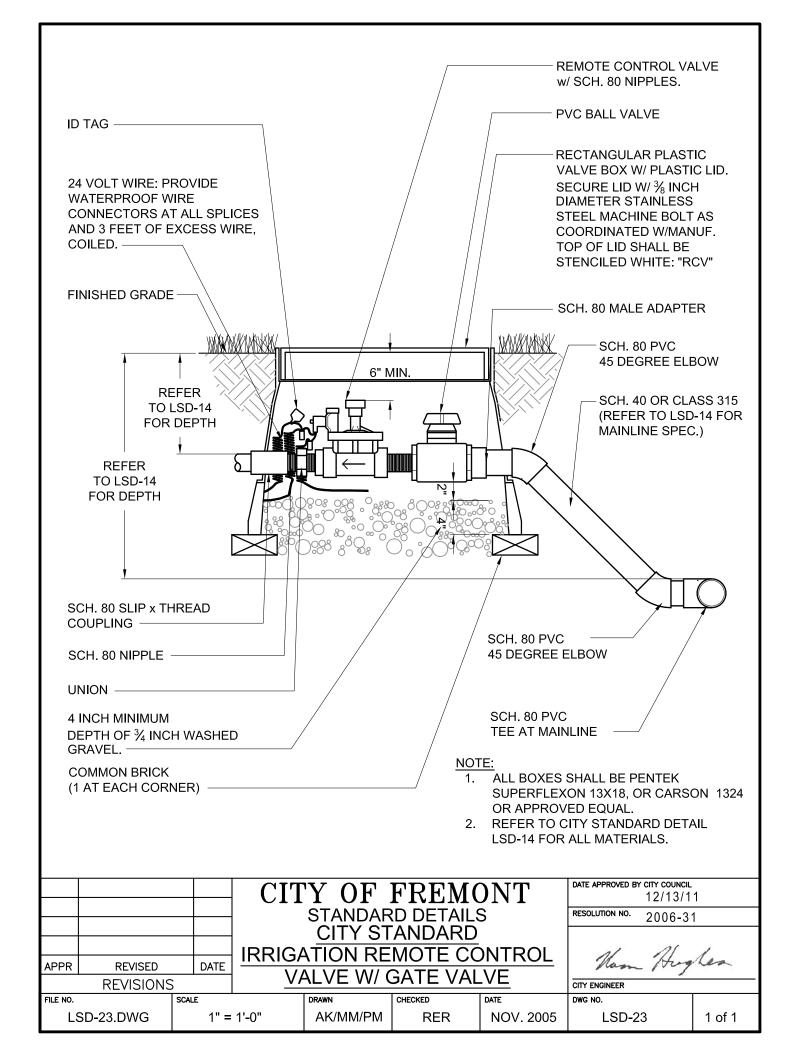
- 1. INSTALL TOP OF POP-UP SPRINKLER 1 INCH ABOVE FINISHED GRADE IN SHRUB AREAS AND FLUSH WITH GRADE IN TURF AREAS.
- 2. ROTORS SHALL BE INSTALLED FLUSH IN TURF AREAS.
- 3. REFER TO CITY STANDARD DETAIL LSD-14 FOR MATERIALS
- 4. INSTALL A MINIMUM OF 9" FROM EDGE OF PAVEMENT IN SHRUB AREAS AND 2" IN TURF AREAS.

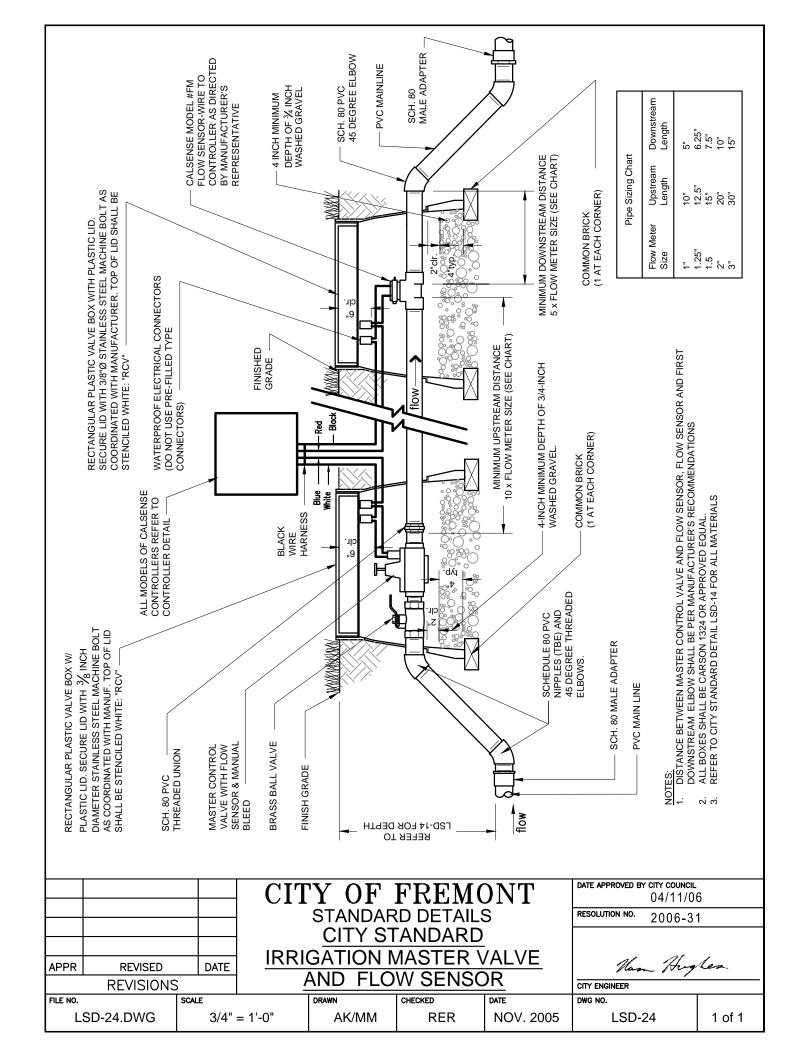
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				STANDARD DETAILS			RESOLUTION NO. 2006-3	1
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FILE NO.	FILE NO. SCALE			DRAWN	CHECKED	DATE	DWG NO.	
LS	LSD-21.DWG No		ONE	AK/MM/PM	RER	NOV. 2005	LSD-21	1 of 1

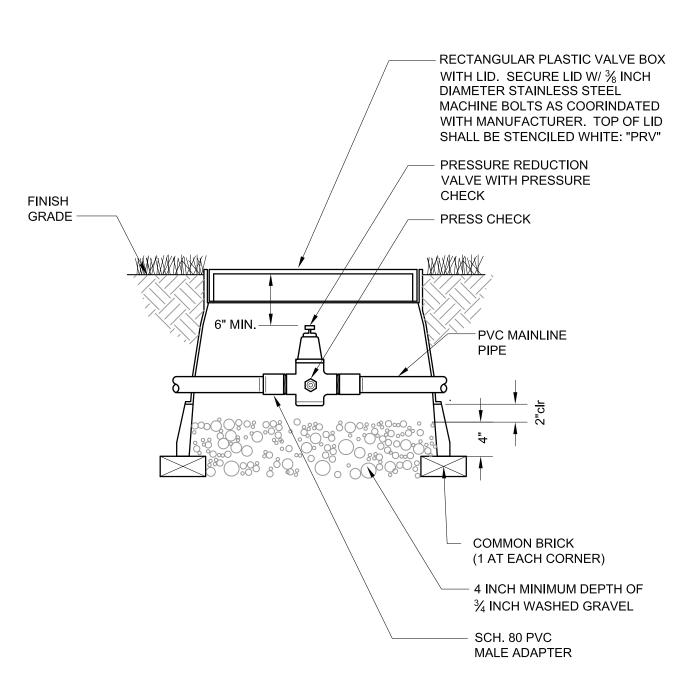


1. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS

			CIT	CITY OF FREMONT				6
				STANDARD DETAILS			RESOLUTION NO. 2006-3	1
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APPR	REVISED	DATE	IDD	RIGATION		=	Nam Hug	Lea
	REVISIONS	S	ILL	RIGATION	GAIL VA	LVE	CITY ENGINEER	
FILE NO. SCALE				DRAWN	CHECKED	DATE	DWG NO.	
LS	LSD-22.DWG 1-1/2		" = 1'-0"	AK/MM/PM	RER	NOV. 2005	LSD-22	1 of 1

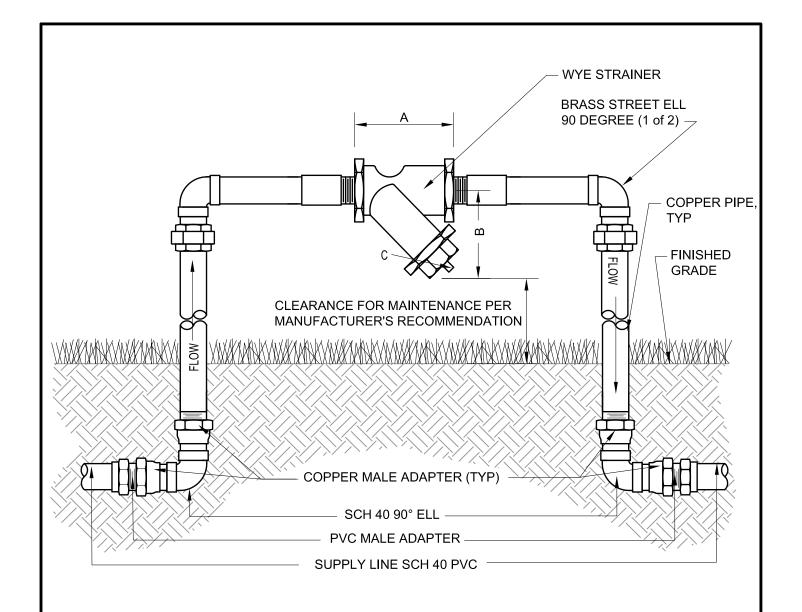






- 1. PRESSURE REDUCING VALVE BODY SHALL BE IRON; SEAT SHALL BE STAINLESS STEEL; INTEGRAL STRAINER SHALL BE STAINLESS STEEL; STEM SHALL BE BRASS; AND, DISK SHALL BE BRASS.
- 2. ALL BOXES SHALL BE PENTEK SUPERFLEXON 13X18, CARSON 1324 OR APPROVED EQUAL.
- 3. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS

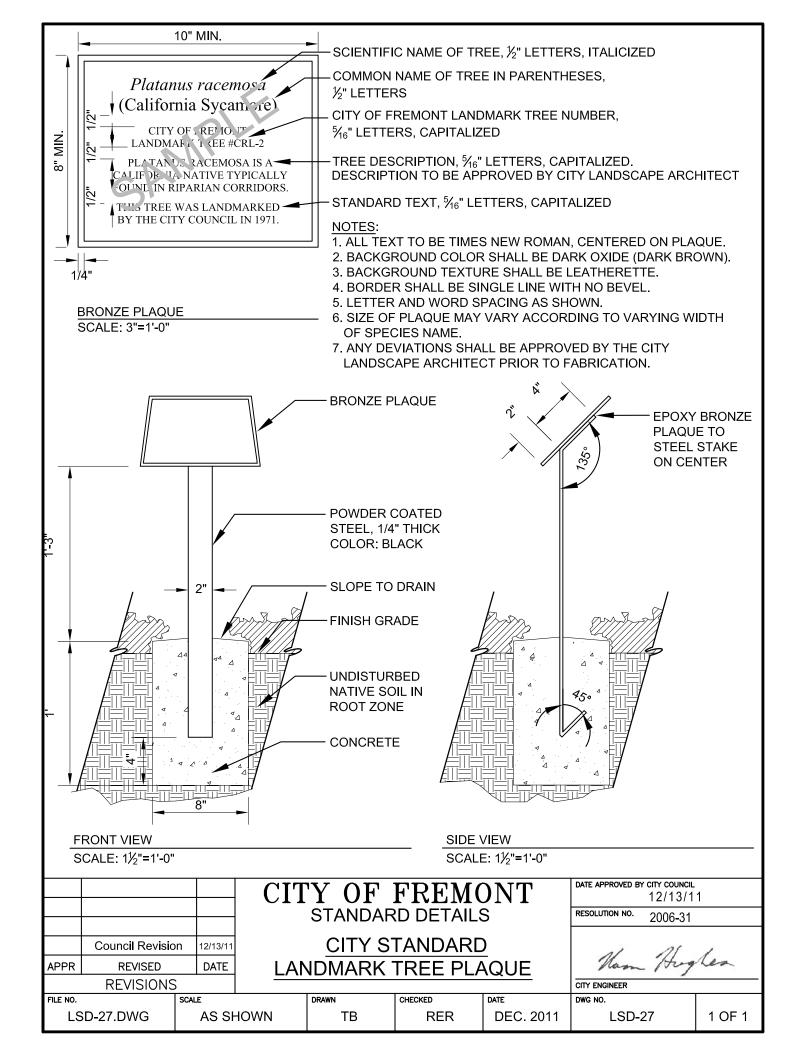
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			IR	IRRIGATION PRESSURE			11 11	1.
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	REVISIONS	•		REDUCTI	<u>ON VALV</u>	<u> </u>	CITY ENGINEER	
FILE NO.			DRAWN	CHECKED	DATE	DWG NO.		
LS	LSD-25.DWG 1" =		1'-0"	AK/MM/PM	RER	NOV. 2005	LSD-25	1 of 1

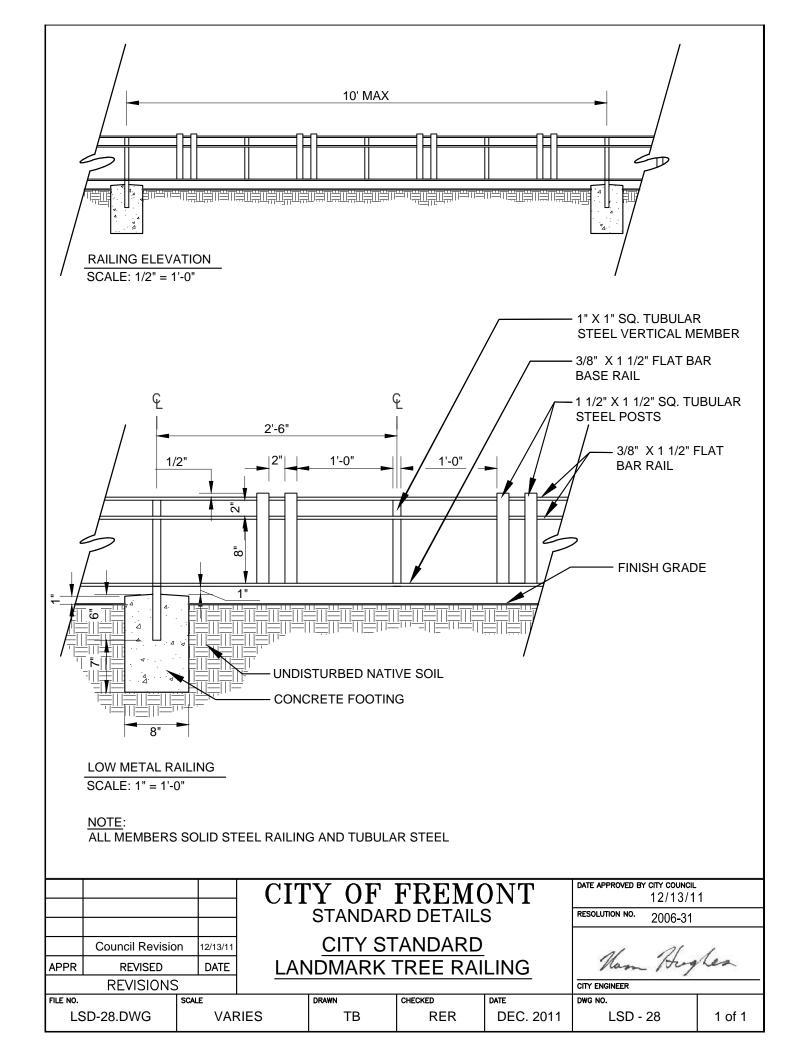


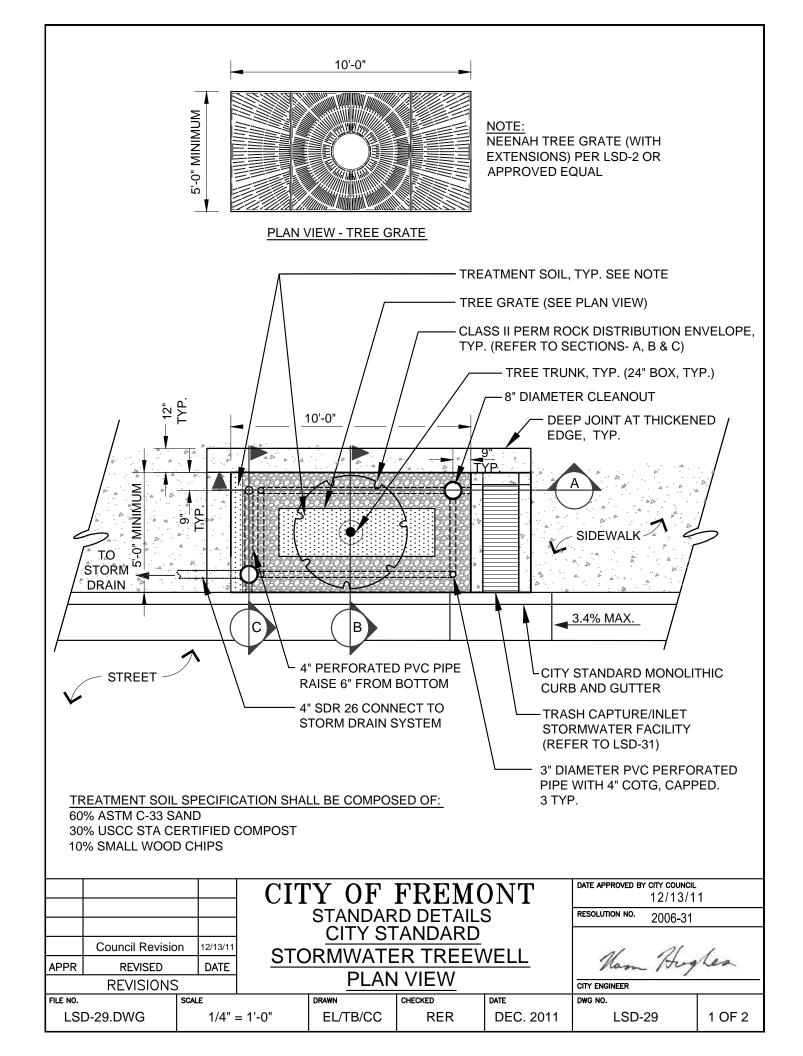
Size	1/2"	3/4"	1"	11/4"	1½"	2"
Α	2¾"	3"	3¾"	4½6"	4 ¹⁵ / ₁₆ "	61/8"
В	21/4"	2%16"	2¾"	35/8"	37/8"	51/8"
С	1/4"	3/8"	3/8"	3/4"	3/4"	1"
Wt	.75	1.38	2.13	3.13	4.5	7

- 1. BODY AND CAP SHALL BE BRONZE ASTM B62; SCREEN SHALL BE 20 MESH STAINLESS STEEL; GASKET SHALL BE NON-ASBESTOS; ENDS SHALL BE THREADED ANSI/ASME B1.20.1
- 2. WORKING PRESSURE SHALL BE NON-SHOCK, 200 PSI @ 150 DEGREES
- 3. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS

			CIT	Y OF		DATE APPROVED BY CITY COUNCIL 12/13/11		
				STANDAR	RESOLUTION NO. 2006-31			
				CITY ST	1 11 1			
APPR	REVISED	DATE	IRRI	GATION V	Nam Hughen			
	REVISIONS		HATCH WILL STRUMEN				CITY ENGINEER	
FILE NO.		SCALE		DRAWN	CHECKED	DATE	DWG NO.	
LSD-26.DWG		1" = 1'-0"		AK/MM/PM	RER	NOV. 2005	LSD-26	1 of 1



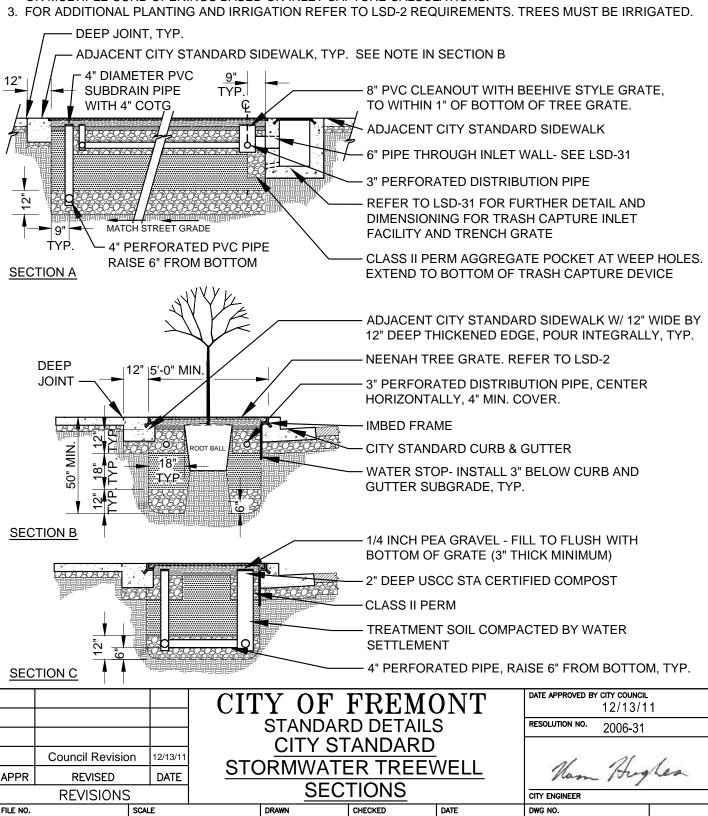




SIZING INFORMATION:

LSD-29.DWG

- 1. THE MAXIMUM ALLOWABLE DRAINAGE AREA FOR THIS TREEWELL AS SHOWN (10' x 5') SHALL BE 1,250 SQ. FT. TREEWELL HAS BEEN SIZED USING THE COMBINED FLOW AND VOLUME METHODOLOGY AS DETAILED IN THE ACCWP C.3 STORMWATER TECHNICAL MANUAL. ANY DEVIATION FROM THIS SIZE (10' x 5') WOULD REQUIRE FLOW-VOLUME CALCULATIONS. SUBSURFACE TREEWELL TREATMENT DEVICES WILL NOT BE ACCEPTED USING SIMPLIFIED SIZING CRITERIA OF 4%.
- 2. THE CURB INLET OPENING OF 15" AS SHOWN IS SUFFICIENT TO CAPTURE 100% OF THE TREATMENT RUNOFF FROM THE MAXIMUM DRAINAGE AREA (1,250 SQ.FT. OF IMPERVIOUS AREA) PERTINENT TO THIS TREEWELL SIZE. THE LENGTH OF CURB OPENING REQUIRED FOR 100% CAPTURE IS DEPENDENT ON THE GUTTER SLOPE (FOR TREEWELLS INSTALLED AT GRADE). STREETS GREATER THAN 3.4% SHALL REQUIRE LONGER OR MULTIPLE CURB OPENINGS BASED ON INLET CAPTURE CALCULATIONS.



MAM/TB/CC

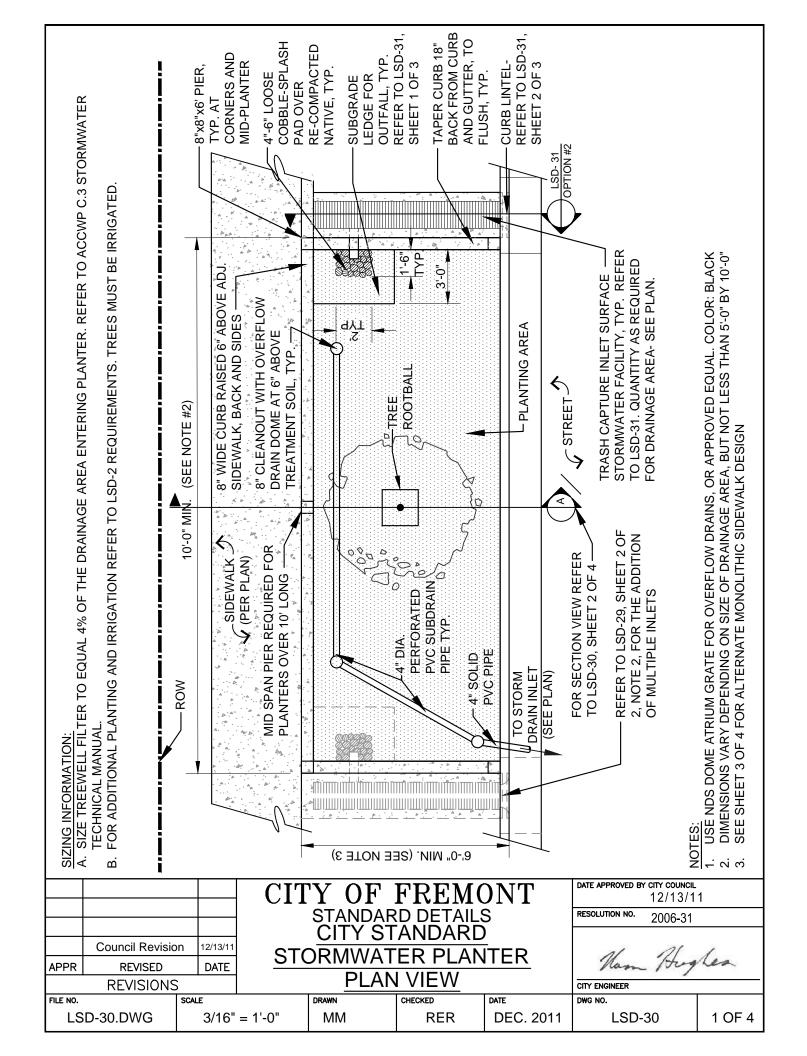
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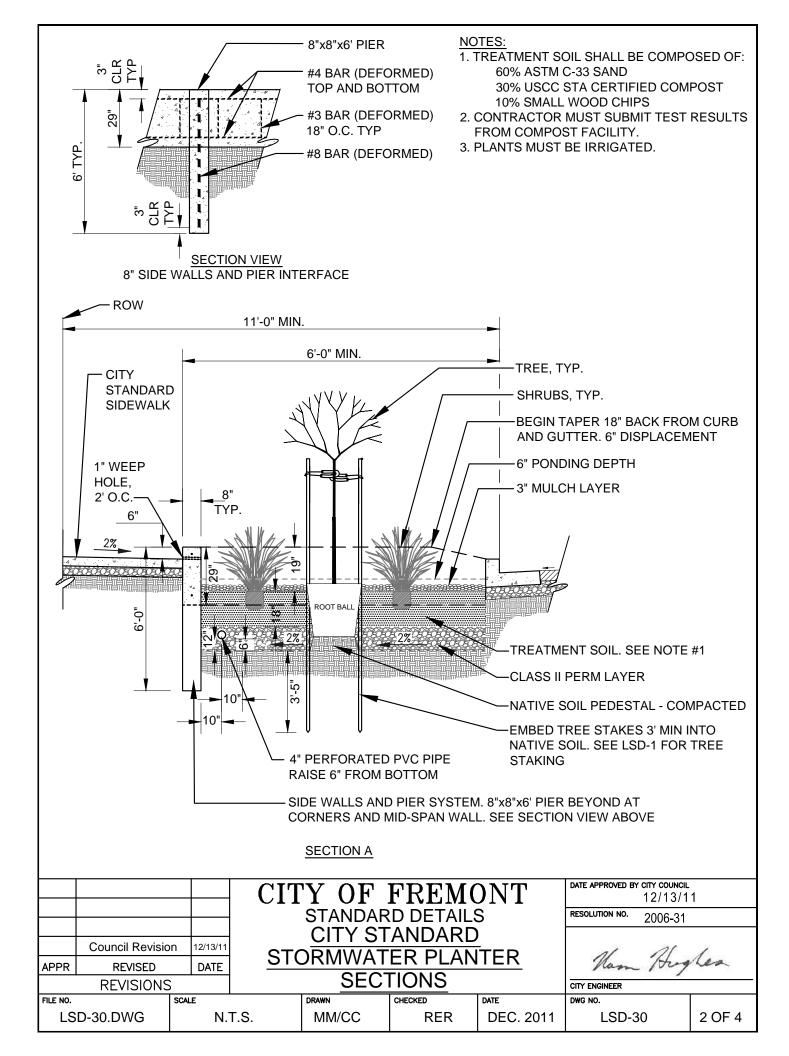
DEC. 2011

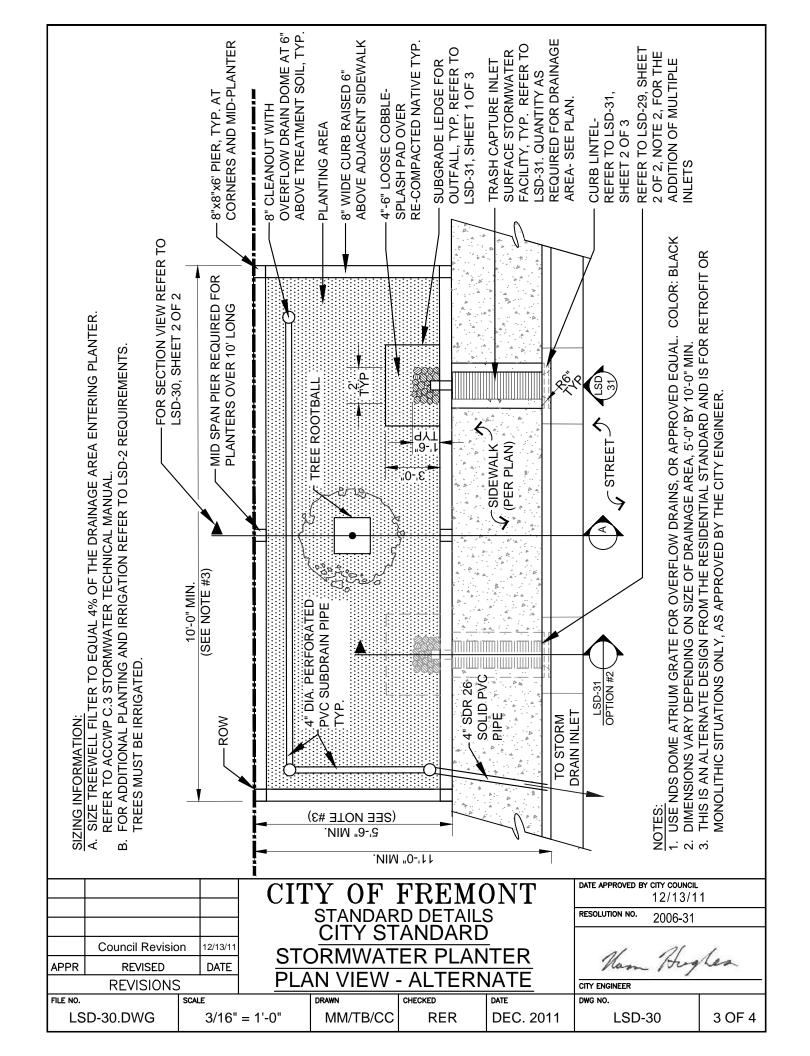
LSD-29

2 OF 2

1/4=1'-0"







NOTES: 1. TREATMENT SOIL SHALL BE COMPOSED OF: 60% ASTM C-33 SAND 30% USCC STA CERTIFIED COMPOST (SEE NOTE 2) 10% SMALL WOOD CHIPS 2. CONTRACTOR SHALL SUBMIT TEST RESULTS FROM COMPOST FACILITY. 3. PLANTS MUST BE IRRIGATED. 4. THIS IS AN ALTERNATE DESIGN FROM THE RESIDENTIAL STANDARD AND IS FOR RETROFIT OR MONOLITHIC SITUATIONS ONLY, AS APPROVED BY THE CITY ENGINEER.

Council Revision

REVISED

REVISIONS

LSD-30.DWG

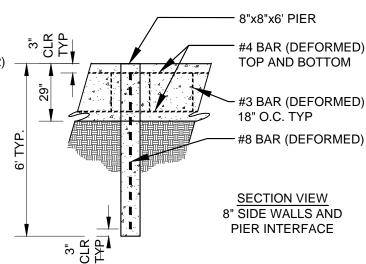
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12/13/11

DATE

N.T.S.

SCALE



DATE APPROVED BY CITY COUNCIL

LSD-30

RESOLUTION NO.

CITY ENGINEER

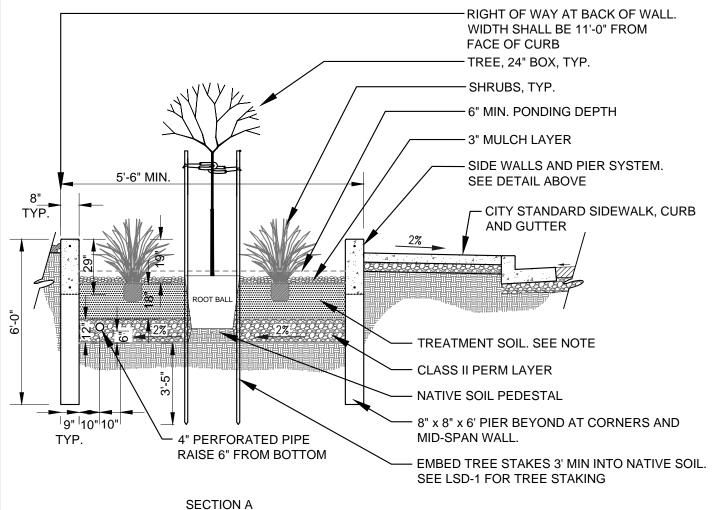
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4 OF 4

2006-31



CITY OF FREMONT

STANDARD DETAILS

CITY STANDARD

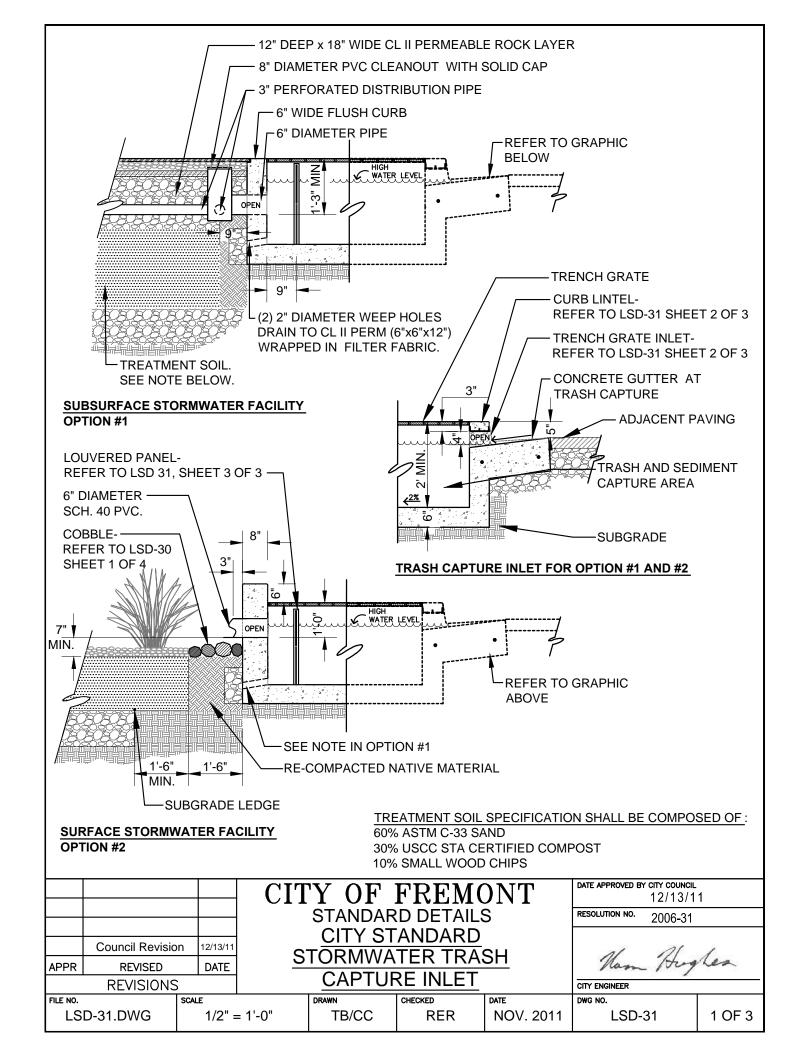
STORMWATER PLANTER

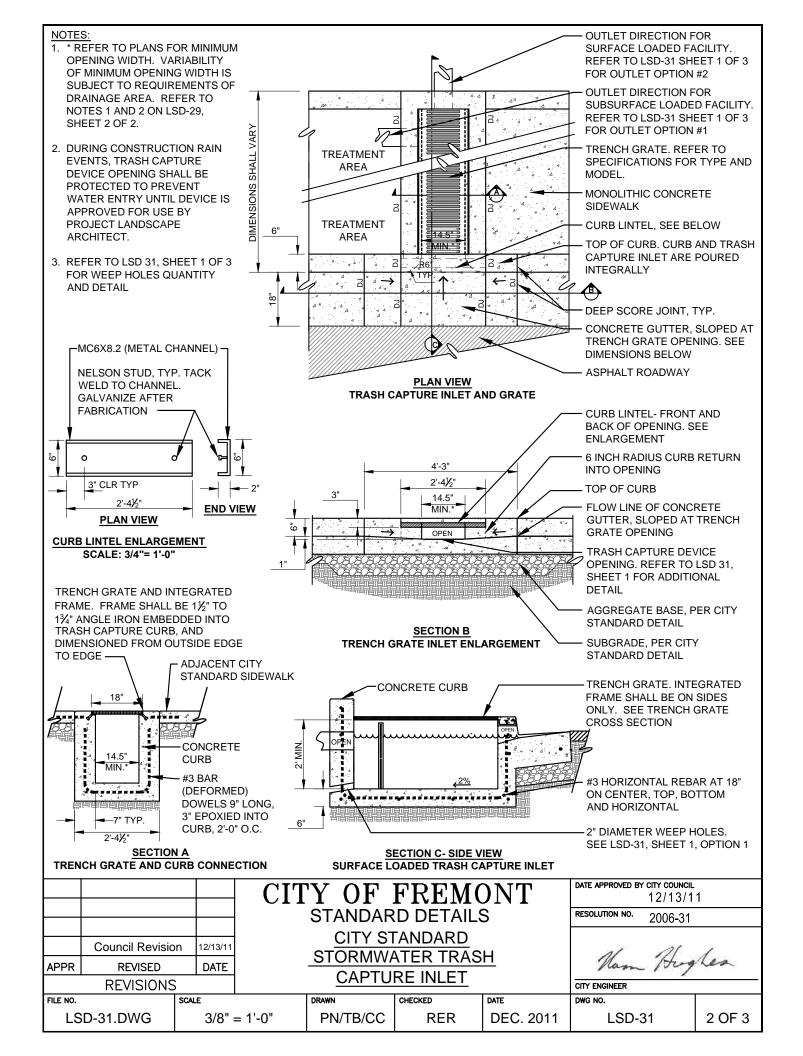
SECTIONS-ALTERNATE

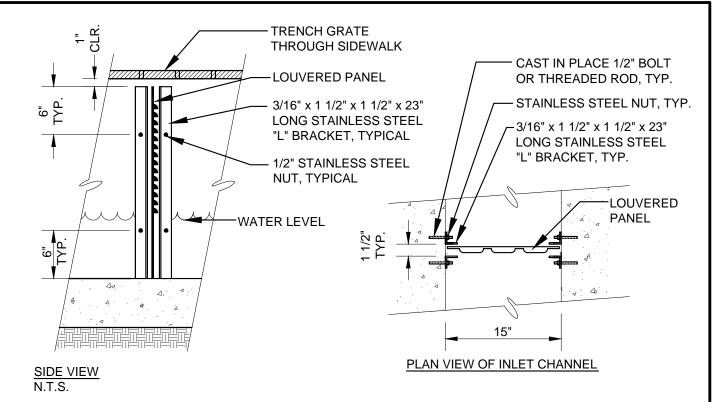
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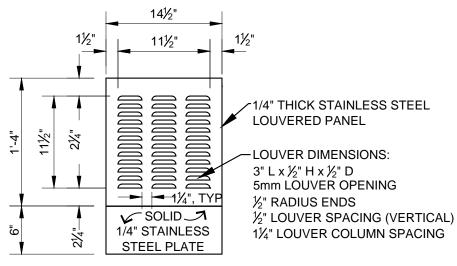






ACCEPTABLE LOUVERED PLATE AND BRACKET SUPPLIER, OR APPROVED EQUAL:

ROSCOE MOSS COMPANY TYPE 304 STAINLESS STEEL 4360 WORTH STREET LOS ANGELES, CA 90063 WWW.ROSCOEMOSS.COM



FRONT VIEW

- 1. LOUVERED PANEL MINIMUM DIMENSION: 22"H x 14 1/2"W x 1/4T". PANEL SIZES SHALL VARY DEPENDING UPON FACILITY REQUIREMENTS.
- 2. FIELD VERIFY AND MAINTAIN 1" CLEAR FROM BOTTOM OF TRENCH GRATE.

			CITY	OF	FREMO	ONT	DATE APPROVED BY CITY COUNCI	=	
			S ⁻	STANDARD DETAILS					
			(CITY ST					
	Council Revision	12/13/11	STORMWATER TRASH				11 11 1		
APPR	REVISED	DATE			Nam Hughes				
REVISIONS			<u>CAPTURE INLET</u>				CITY ENGINEER		
FILE NO.		SCALE	DRA	AWN	CHECKED	DATE	DWG NO.		
LS	D-31.DWG	1" = 1'-0"		MAM/CC	RER/MM	NOV. 2011	LSD-31	3 OF 3	